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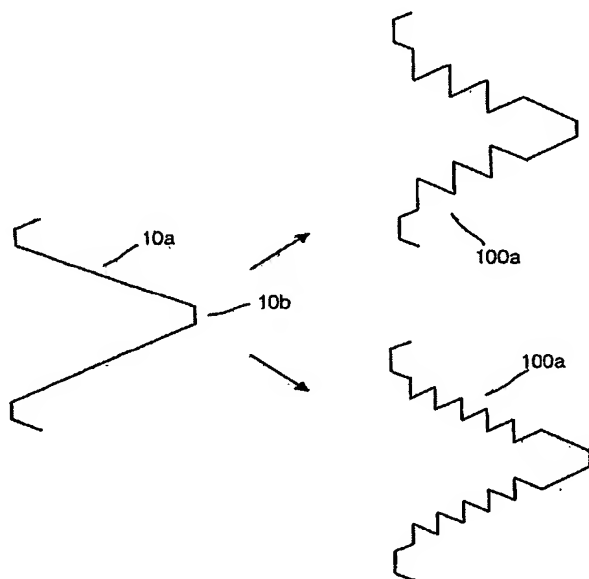
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(54) Title: HELICAL IMPLANT



(57) Abstract: Disclosed herein is a helical implant. The
helical implant is formed with threads thereon and each of
threads has threads inclines comprising micro-patterns,
such as recesses and protrusion, on the thread inclines. The
micro-patterns on the helical implant may have triangular
patterns 100a, stepped patterns 100b and arcuate 100c
or combination patterns 100d composed of plurality of
patterns. The micro-patterns preferably have a cross
sectional area of 150 μm . The helical implant has an
increased contact area at the fixed portion, so that the
volume of the bone induced between the threads 10b is
increased from the several dozens of μm level to fifty times
that at maximum, thereby dispersing load at the implanted
portion and preventing physical damage near the implanted
portion.

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